

SEQUENCE LISTING

<110> St Vincent's Hospital Sydney Limited

<120> Anti-p53 Antibodies

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<160> 60

<210> 1

<211> 339

<212> DNA

<213> Human

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tac aac tcc aac agt aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aaa ctg ctc att tac tgg gcg tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc acc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt cag caa tat ttt agt tct ccc tac act ttt ggc 315
cag ggg acc aag ctg gaa atc aaa 339
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<130> 451541

<150> Australia PP9321

<151> 19 March 1999

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ggc cag tat ata cac tgg gtg cga cag gcc cct gga caa ggg ctt 135
gag tgg atg gga gtg atc aat cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270

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<151> 19 March 1999

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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt caa caa tat ttt agt act cca ctc act ttc ggc 315
gga ggg acc aag gtg gag atc aaa 339
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<151> 19 March 1999

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cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt gag 135
tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac gcg 180
ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc acg 225
gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac acg 270
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<151> 19 March 1999

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tac agc ctc aac aat aag aac tac ttg gct tgg tac cag cag aaa 135
cca gga cag cct cct aag cta ctc att cac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct gag aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gag gat gtg gca 270
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cag ggg acc aag ctg gag atc aag 339
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt caa caa tat ttt agt act cca ctc act ttc ggc 315
gga ggg acc aag gtg gag atc aaa 339
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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cag gga acc ctg gtc gcc gtc tcc tct 342
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt caa caa tat ttt agt act cca ctc act ttc ggc 315
gga ggg acc aag gtg gag atc aaa 339
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
caa tcc ggt gtc cct gac cga ttc cgt ggc agc ggg tcc ggg aca 225
gat ttc act ctc acc atc acc aac ctg cag gct gaa gat gcg gcg 270
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cag ggg acc aaa tta gag atc aaa 339
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
acg gcc gtc tat tac tgc ctt tta cag gcc ctg aaa cat tgg ggc 315
cag gga acc ctg gtc gcc gtc tcc tca 339
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<150> Australia PP9321

<151> 19 March 1999

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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
caa tcc ggt gtc cct gac cga ttc cgt ggc agc ggg tcc ggg aca 225
gat ttc act ctc acc atc acc aac ctg cag gct gaa gat gcg gcg 270
att tat tac tgt cag caa tat ttt agt tca ccc tac act ttt ggc 315
cag ggg acc aag ctg gag atc aaa 339
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<151> 19 March 1999

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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gcg ggc tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
acg gcc gtc tat tat tgc ctt tta cag gcc ctg aaa cat tgg ggc 315
cag gga acc ctg gtc gcc gtc tcc tca 342
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<151> 19 March 1999

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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt cag caa tac tat agg act cct ctc act ttc ggc 315
gga ggg acc aag gtg gag atc aaa 339
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<151> 19 March 1999

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ggc cag tat ata cac tgg gtg cga cag gcc cct gga caa ggg ctt 135
gag tgg atg gga gtg atc aat cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270
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<151> 19 March 1999

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<212> DNA

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tac aat tcc aac agt aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aaa ctt ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt cag caa tat ttt agt act ccc tac act ttt ggc 315
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<151> 19 March 1999

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ggc cag tat ata cac tgg gtg cga cag gcc cct gga caa ggg ctt 135
gag tgg atg gga gtg atc aac cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270
acg gcc gtg tat tac tgt ctt tca cag gcc ctg aag tat tgg ggc 315
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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt caa caa tat ttt agt act cca ctc act ttc ggc 315
gga ggg acc aag gtg gag atc aaa 339
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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tac agc ctc aac aat aag aac tac ttg gct tgg tac cag cag aaa 135
cca gga cag cct cct aag cta ctc att cac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct gag aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gag gat gtg gca 270
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ttt 135
gag tgg atg gga ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg aaa ttc aag ggc aga ctc acc atg tcc agg gac tcg tcc 225
acg gac aca gtt tac atg acc ttg acc agc ctg aca tcc gaa gac 270
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tac aac tcc aac agt aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aaa ctg ctc att tac tgg gcg tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc acc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt cag caa tat ttt agt tct ccc tac act ttt ggc 315
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<151> 19 March 1999

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ggc cag tat ata cac tgg gtg cga cag gcc cct gga caa ggg ctt 135
gag tgg atg gga gtg atc aat cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270
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<130> 451541

<150> Australia PP9321

<151> 19 March 1999

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tac aat tcc aac agt aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aaa ctt ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
gtt tat tac tgt cag caa tat ttt agt act ccc tac act ttt ggc 315
cag ggg acc aag ctg gag atc aaa 339
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<150> Australia PP9321

<151> 19 March 1999

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<212> DNA

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gag tgg atg gga gtg atc aac cct agt ggt gga agc gca aac tac 180
gcg ccg agt ttc cag ggc aga ctc agc atg tcc agg gac gcg tcc 225
acg aac aca gtg tac atg aaa ttg agc agc ctg aca tcc gaa gac 270
acg gcc gtg tat tac tgt ctt tca cag gcc ctg aag tat tgg ggc 315
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<151> 19 March 1999

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<212> DNA

<213> Human

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tac agc tcc aac aat aag aac tac tta gct tgg tac cag cag aaa 135
cca gga cag cct cct aag ctg ctc att tac tgg gca tct acc cgg 180
gaa tcc ggg gtc cct gac cga ttc agt ggc agc ggg tct ggg aca 225
gat ttc act ctc acc atc agc agc ctg cag gct gaa gat gtg gca 270
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ggc cag tat att cat tgg gtg cga cag gcc cct gga caa ggg ctt 135
gaa tgg atg ggc ata atc aat cct agt ggt gga agt gca aac tac 180
gcg ccg agg ttc aag ggc aga ctc tcc atg tcc agg gac tcg tcc 225
acg gac aca gct tac ttg aca ttg acc agc ctg aca tcc gaa gac 270
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gcg gcc gag ctc act cag tct cca ctc tcc ctg ccc gtc atc cct 45
gga gag ccg gcc tcc atc tcc tgc agg tct agt cag agc ctc ctg 90
cat agg aat gga tac aac tat ttg gat tgg tac ctg cag aag cca 135
ggg cag tct cca caa ctc ctg atc tat ttg ggt tct act cgg gcc 180
tcc ggg gtc cct gac aga ttc agt ggc agt gga tca ggc aca gat 225
ttt aca ctg aac atc aga aga gtg gag gct gag gat gtt ggg gtt 270
tat tat tgc atg caa ggt cta caa acg cca tac act ttc ggc gaa 315
ggg acc aag gtg gag atc aaa 336
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<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 30

<211> 354

<212> DNA

<213> Human

<400> 30

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gtg cag ctg ctc gag tct ggg gga ggc tta ata cag cca ggg cgg 45
tcc ctg aga ctc tca tgt aca gcc tct gga ttc ccc ttt ggt gat 90
tct gct atg acc tgg ttc cgc cag gct cca ggg aag ggg ctg gag 135
tgg gtg ggt ttc att aga agc aaa gct tat ggt gcg gca aca gca 180
tac gcc gcg tct atg aaa ggc aga gtt acc atc tca aga gat gat 225
gcc aaa agt atc gcc tat ctg cac atg agc aga ctg aag atc gag 270
gac aca gcc gtt tat ttc tgt agt aga gtg aaa gca ggg ggc cct 315
gac tac tgg ggc cag gga acc ctg gtc acc gtc tcc tca 354
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<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 31

<211> 114

<212> Amino Acid

<213> Human

<400> 31

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Asn Gln Ser Val Leu
20 25 30

Tyr Asn Ser Asn Ser Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 32

<211> 114

<212> Amino Acid

<213> Human

<400> 32

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Met Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Thr Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Val Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Ser Phe Gln Gly Arg Leu Ser Met Ser Arg Asp Ala Ser
65 70 75

Thr Asn Thr Val Tyr Met Lys Leu Ser Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Ser Gln Ala Leu Lys Tyr Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 33

<211> 113

<212>	Amino Acid
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<213> Human

<400> 33

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu,
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Thr Pro Leu Thr Phe Gly
95 100 105

Gly Gly Thr Lys Val Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 34

<211> 114

<212> Amino Acid

<213> Human

<400> 34

Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ala
1 5 10 15

Ser Val Thr Ile Ser Cys Arg Ala Ser Arg Gln Asp Phe Ser Gly
20 25 30

Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu
35 40 45

Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr Ala
50 55 60

Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser Thr
65 70 75

Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp Thr
80 85 90

Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly Gln
95 100 105

Gly Thr Leu Val Ala Val Ser Ser Ala
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 35

<211> 113

<212> Amino Acid

<213> Human

<400> 35

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ala Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Leu Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile His Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Glu Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Tyr Thr Thr Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 36

<211> 114

<212> Amino Acid

<213> Human

<400> 36

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Val	Lys	Arg	Pro	Gly	1	5	10	15
Ala	Ser	Val	Thr	Ile	Ser	Cys	Gln	Ala	Ser	Arg	Gln	Asp	Phe	Ser	20	25	30	
Gly	Gln	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Phe	35	40	45	
Glu	Trp	Met	Gly	Ile	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Ala	Asn	Tyr	50	55	60	
Ala	Pro	Lys	Phe	Lys	Gly	Arg	Leu	Thr	Met	Ser	Arg	Asp	Ser	Ser	65	70	75	
Thr	Asp	Thr	Val	Tyr	Met	Thr	Leu	Thr	Ser	Leu	Thr	Ser	Glu	Asp	80	85	90	
Thr	Ala	Val	Tyr	Tyr	Cys	Leu	Leu	Gln	Ala	Leu	Lys	His	Trp	Gly	95	100	105	
Gln	Gly	Thr	Leu	Val	Ala	Val	Ser	Ser							110			

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 37

<211> 113

<212> Amino Acid

<213> Human

<400> 37

Ala	Ala	Glu	Leu	Thr	Gln	Ser	Pro	Glu	Ser	Leu	Ala	Val	Ser	Leu	1	5	10	15
Gly	Glu	Arg	Ala	Thr	Ile	Asn	Cys	Lys	Ser	Ser	Gln	Ser	Val	Leu	20	25	30	
Tyr	Ser	Ser	Asn	Asn	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	35	40	45	
Pro	Gly	Gln	Pro	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	50	55	60	
Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	65	70	75	
Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	80	85	90	
Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Phe	Ser	Thr	Pro	Leu	Thr	Phe	Gly	95	100	105	
Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	110										

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 38

<211> 114

<212> Amino Acid

<213> Human

<400> 38

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 39

<211> 113

<212> Amino Acid

<213> Human

<400> 39

Ala Ala Glu Leu Thr Gln Ser Pro Glu Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Thr Arg Leu Thr Phe Gly
95 100 105

Gly Gly Thr Lys Val Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 40

<211> 114

<212> Amino Acid

<213> Human

<400>	40
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Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 42

<211> 114

<212> Amino Acid

<213> Human

<400> 42

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Val Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asp Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Phe
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Lys Phe Lys Gly Arg Leu Thr Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Val Tyr Met Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Leu Gln Ala Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<151> 19 March 1999

<210> 43

<211> 113

<212>	Amino Acid
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<213> Human

<400> 43

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Gln Ser Gly Val Pro Asp Arg Phe Arg Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Thr Asn Leu Gln Ala Glu Asp Ala Ala
80 85 90

Ile Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 44

<211> 114

<212> Amino Acid

<213> Human

<400> 44

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Val	Lys	Arg	Pro	Gly	1	5	10	15
Ala	Ser	Val	Thr	Ile	Ser	Cys	Gln	Ala	Ser	Arg	Gln	Asp	Phe	Ser	20	25	30	
Gly	Gln	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Phe	35	40	45	
Glu	Trp	Met	Gly	Ile	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Ala	Gly	Tyr	50	55	60	
Ala	Pro	Lys	Phe	Lys	Gly	Arg	Leu	Thr	Met	Ser	Arg	Asp	Ser	Ser	65	70	75	
Thr	Asp	Thr	Val	Tyr	Met	Thr	Leu	Thr	Ser	Leu	Thr	Ser	Glu	Asp	80	85	90	
Thr	Ala	Val	Tyr	Tyr	Cys	Leu	Leu	Gln	Ala	Leu	Lys	His	Trp	Gly	95	100	105	
Gln	Gly	Thr	Leu	Val	Ala	Val	Ser	Ser							110			

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 45

<211> 113

<212> Amino Acid

<213> Human

<400> 45

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Tyr Arg Thr Pro Leu Thr Phe Gly
95 100 105

Gly Gly Thr Lys Val Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 46

<211> 114

<212> Amino Acid

<213> Human

<400> 46

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Met	Lys	Arg	Pro	Gly	1	5	10	15
Ala	Ser	Val	Thr	Ile	Ser	Cys	Gln	Ala	Ser	Arg	Gln	Thr	Phe	Ser	20	25	30	
Gly	Gln	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	35	40	45	
Glu	Trp	Met	Gly	Val	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Ala	Asn	Tyr	50	55	60	
Ala	Pro	Ser	Phe	Gln	Gly	Arg	Leu	Ser	Met	Ser	Arg	Asp	Ala	Ser	65	70	75	
Thr	Asn	Thr	Val	Tyr	Met	Lys	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	80	85	90	
Thr	Ala	Val	Tyr	Tyr	Cys	Leu	Ser	Gln	Ala	Leu	Lys	Tyr	Trp	Gly	95	100	105	
Gln	Gly	Thr	Leu	Val	Ala	Val	Ser	Ser							110			

<213> Human

[illegible]

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 48

<211> 114

<212> Amino Acid

<213> Human

<400> 48

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Met	Lys	Arg	Pro	Gly	1	5	10	15
Ala	Ser	Val	Thr	Ile	Ser	Cys	Gln	Ala	Ser	Arg	Gln	Thr	Phe	Ser	20	25	30	
Gly	Gln	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	35	40	45	
Glu	Trp	Met	Gly	Val	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Ala	Asn	Tyr	50	55	60	
Ala	Pro	Ser	Phe	Gln	Gly	Arg	Leu	Ser	Met	Ser	Arg	Asp	Ala	Ser	65	70	75	
Thr	Asn	Thr	Val	Tyr	Met	Lys	Leu	Ser	Ser	Leu	Thr	Ser	Glu	Asp	80	85	90	
Thr	Ala	Val	Tyr	Tyr	Cys	Leu	Ser	Gln	Ala	Leu	Lys	Tyr	Trp	Gly	95	100	105	
Gln	Gly	Thr	Leu	Val	Ala	Val	Ser	Ser							110			

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 49

<211> 113

<212>	Amino Acid
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<213> Human

<400> 49

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Thr Pro Leu Thr Phe Gly
95 100 105

Gly Gly Thr Lys Val Glu Ile Lys
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 50

<211> 114

<212> Amino Acid

<213> Human

<400> 50

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Val	Lys	Arg	Pro	Gly	1	5	10	15
Ala	Ser	Val	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Arg	Gln	Asp	Phe	Ser	20	25	30	
Gly	Gln	Tyr	Ile	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Phe	35	40	45	
Glu	Trp	Met	Gly	Ile	Ile	Asn	Pro	Ser	Gly	Gly	Ser	Ala	Asn	Tyr	50	55	60	
Ala	Pro	Lys	Phe	Lys	Gly	Arg	Leu	Thr	Met	Ser	Arg	Asp	Ser	Ser	65	70	75	
Thr	Glu	Thr	Val	Tyr	Met	Thr	Leu	Thr	Ser	Leu	Thr	Ser	Glu	Asp	80	85	90	
Thr	Ala	Val	Tyr	Tyr	Cys	Leu	Leu	Gln	Ala	Leu	Lys	His	Trp	Gly	95	100	105	
Gln	Gly	Thr	Leu	Val	Gly	Pro	Ser	Ser							110			

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 51

<211> 114

<212> Amino Acid

<213> Human

<400> 51

Ala Ala Glu Leu Thr Gln Ser Pro Asp Ser Leu Ala Val Ala Leu
1 5 10 15

Gly Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Ser Val Leu
20 25 30

Tyr Ser Leu Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys
35 40 45

Pro Gly Gln Pro Pro Lys Leu Leu Ile His Trp Ala Ser Thr Arg
50 55 60

Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Glu Thr
65 70 75

Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala
80 85 90

Val Tyr Tyr Cys Gln Gln Tyr Phe Ser Ser Pro Tyr Thr Phe Gly
95 100 105

Gln Gly Thr Lys Leu Glu Ile Lys
110

<400> 52

Gln Gly Thr Leu Val Ala Val Ser Ser
110

[illegible]

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 54

$\langle 211 \rangle$ 114

<212> Amino Acid

<213> Human

<400> 54

Val Gln Leu Leu Glu Gln Ser Gly Ala Glu Met Lys Arg Pro Gly
1 5 10 15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Thr Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Val Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Ser Phe Gln Gly Arg Leu Ser Met Ser Arg Asp Ala Ser
65 70 75

Thr Asn Thr Val Tyr Met Lys Leu Ser Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Tyr Cys Leu Ser Gln Ala Leu Lys Tyr Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

[illegible]

[illegible]

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 57

<211> 113

<212> Amino Acid

<213> Human

<400> 57

Ala	Ala	Glu	Leu	Thr	Gln	Ser	Pro	Asp	Ser	Leu	Ala	Val	Ser	Leu	1	5	10	15
Gly	Glu	Arg	Ala	Thr	Ile	Asn	Cys	Lys	Ser	Ser	Gln	Ser	Val	Leu	20	25	30	
Tyr	Ser	Ser	Asn	Asn	Lys	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	35	40	45	
Pro	Gly	Gln	Pro	Pro	Lys	Leu	Leu	Ile	Tyr	Trp	Ala	Ser	Thr	Arg	50	55	60	
Glu	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	65	70	75	
Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Ala	Glu	Asp	Val	Ala	80	85	90	
Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Tyr	Ser	Thr	Pro	Tyr	Thr	Phe	Gly	95	100	105	
Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys								110			

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 58

<211> 114

<212> Amino Acid

<213> Human

<400> 58

Val	Gln	Leu	Leu	Glu	Gln	Ser	Gly	Ala	Glu	Val	Lys	Arg	Pro	Gly
1				5					10					15

Ala Ser Val Thr Ile Ser Cys Gln Ala Ser Arg Gln Asn Phe Ser
20 25 30

Gly Gln Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
35 40 45

Glu Trp Met Gly Ile Ile Asn Pro Ser Gly Gly Ser Ala Asn Tyr
50 55 60

Ala Pro Arg Phe Lys Gly Arg Leu Ser Met Ser Arg Asp Ser Ser
65 70 75

Thr Asp Thr Ala Tyr Leu Thr Leu Thr Ser Leu Thr Ser Glu Asp
80 85 90

Thr Ala Val Tyr Phe Cys Leu Leu Gln Ser Leu Lys His Trp Gly
95 100 105

Gln Gly Thr Leu Val Ala Val Ser Ser
110

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 59

<211> 97

<212> Amino Acid

<213> Human

<400> 59

Ala Ala Glu Leu Thr Gln Ser Pro Leu Ser Leu Pro Val Ile Pro
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu
20 25 30

His Arg Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro
35 40 45

Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Thr Arg Ala
50 55 60

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
65 70 75

Phe Thr Leu Asn Ile Arg Arg Val Glu Ala Glu Asp Val Gly Val
65 70 75

Tyr Tyr Cys Met Gln Gly Leu Gln Thr Pro Tyr Thr Phe Gly Glu
80 85 90

Gly Thr Lys Val Glu Ile Lys
95

<130> 451541

<150> Australia PP9321

<151> 19 March 1999

<210> 60

<211> 118

<212> Amino Acid

<213> Human

<400> 60

Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Ile	Gln	Pro	Gly	Arg	1	5	10	15
Ser	Leu	Arg	Leu	Ser	Cys	Thr	Ala	Ser	Gly	Phe	Pro	Phe	Gly	Asp	20	25	30	
Ser	Ala	Met	Thr	Trp	Phe	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	35	40	45	
Trp	Val	Gly	Phe	Ile	Arg	Ser	Lys	Ala	Tyr	Gly	Ala	Ala	Thr	Ala	50	55	60	
Tyr	Ala	Ala	Ser	Met	Lys	Gly	Arg	Val	Thr	Ile	Ser	Arg	Asp	Asp	65	70	75	
Ala	Lys	Ser	Ile	Ala	Tyr	Leu	His	Met	Ser	Arg	Leu	Lys	Ile	Glu	80	85	90	
Asp	Thr	Ala	Val	Tyr	Phe	Cys	Ser	Arg	Val	Lys	Ala	Gly	Gly	Pro	95	100	105	
Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	110	115				